

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052136 A1

(51) International Patent Classification⁷: C12N 5/00

(21) International Application Number:
PCT/EP2004/053133

(22) International Filing Date:
26 November 2004 (26.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03104440.7 28 November 2003 (28.11.2003) EP
60/526,414 2 December 2003 (02.12.2003) US

(71) Applicant (for all designated States except US): **ARES TRADING S.A.** [CH/CH]; Zone industrielle de l'Ourietaz, CH-1170 Aubonne (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BERNARD, Alain** [FR/FR]; 6, rue Pasteur, F-74100 Ville-la-Grand (FR). **PAPP, Frédéric** [FR/CH]; 10 route cantonale, CH-1897 Les Evouettes (CH).

(74) Agent: **SERONO INTERNATIONAL S.A.**; Intellectual Property, 12, Chemin des Aulx, CH-1228 Plan-les-Ouates (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR RECYCLING SOLID SUPPORTS FOR CULTIVATION OF ANCHORAGE-DEPENDENT CELLS

(57) Abstract: This invention relates to methods for use in industrial production of proteins. Specifically, the present invention provides a method of recycling solid supports for cultivation of anchorage-dependent cells such as, e.g., microcarriers and Fibra-Cell® disks. Solid supports recycled by a method of the present invention allow obtaining a protein productivity level comparable to the productivity level obtained with non-recycled solid support. The method comprises the steps of rinsing with water, rinsing with a sodium hydroxide solution and second rinsing step with water.



WO 2005/052136 A1